Cove Junior School
Whole School Overview
Computing

Year 3	Computing	Area	Key Question	Knowledge and skills progression statement	Key vocabulary
Autumn 1 Blooming Marvellous	Be able to find, open and save files.	Technology in our Lives	Where are things kept on a computer?	Be able to find, open and save files.	save as, text box, folder
Autumn 2 Food Glorious Food	Design and create programs using sequencing. Find and correct bugs in simple algorithms	Programming	Do instructions need to be in a certain order?	Design and create programs using sequencing. Find and correct bugs in simple algorithms	sequence, start command, logical reasoning
Spring 1 Digging Up the Past	Use the internet to search for information	Technology in our Lives	Is the internet a good place to find information?	Use the internet to search for information	search engine, search bar, copy, paste
Spring 2 It's a Mystery	Collect, organise and present data using a branching database	Data	Why do we need to organise data?	Collect, organise and present data in a branching database	data, branching database
Summer 1 Webs and Whiskers	Use word processing software to create a document	Multimedia	Is word processing better than writing?	Use word processing software to create a document	shift, insert, cut
Summer 2 Secrets of the Tomb	Use software to create a presentation	Multimedia	What makes a good presentation?	Use software to create a presentation	slide, template

Year 4	Computing	Area	Key Question	Knowledge and skills progression statement	Key vocabulary
Autumn 1 Go with the Flow	Collect data. Choose how to organise, present and evaluate this data. Integrate this with Maths.	Data	Why do we put information in a table?	Collect data and choose how to organise, present and evaluate this data.	row, column, cell, header, pivot table
Autumn 2 Abominables	Yeti Scratch program - design and create programs using sequencing and loops.	Programming	Why are computers good for repetitive tasks?	Design and create programs using sequencing and loops.	loop, infinite loop, count-controlled loop, decompose, error
Spring 1 Tribes, Towns and Togas!	Use software to create an animation for the story they write in English.	Multimedia	Are films better than books?	Use software to create an animation	animation, frame
Spring 2 Roll Up, Roll Up!	Use photo editing software to manipulate images taken of children on Hook day	Multimedia	Is it responsible to edit photos? (Would be good to include a PSHE angle here – is it responsible for celebrities to photoshop/filter photos of themselves)	Use photo editing software to manipulate images	select, crop, effect, filter, retouch
Summer 1 Heroes or Zeros?	Use publishing software to create a newsletter of learning in this topic	Multimedia	What is the best way to tell others about our learning?	Use publishing software to create visual communications (eg greetings cards, posters, brochures)	desktop publishing, orientation, shortcut, left justify, right justify
Summer 2 Save our Seas	Find and correct bugs in more complex programs and algorithms	Programming	Do all programmers make mistakes?	Find and correct bugs in more complex programs and algorithms	

Year 5	Computing	Area	Key Question	Knowledge and skills progression statement	Key vocabulary
Autumn 1 Making a Difference	Spreadsheet project	Data	Why are spreadsheets useful?	Use a spreadsheet to organise, present and analyse data. Collect data and use a spreadsheet to help organise, present and evaluate this data.	spreadsheet, database, average, sum, graph
Autumn 2 Coasts	Website about coastal town	Multimedia	Have websites replaced information books?	Design and create a web page	website, webpage, HTML, link, copyright
Spring 1 Groovy Greeks	Selection in Physical Computing - Crumble boards	Programming	How can computers make decisions?	Design and create programs using sequencing, loops and if..then..else statements.	conditional selection, condition starts action
Spring 2 Potions and Possibilities	Scratch project with focus on debugging	Programming	How do I edit and improve my work?	Use logical thinking to find and correct bugs	
Summer 1 Infinity and Beyond	Present their Planet Gods work (English) choosing a skill learned in a previous year (word, powerpoint, publisher, animation)	Multimedia	Should my writing stay in my Learning Journal?	Combine and make choices about which software will produce the best outcome	software
Summer 2 Ferocious Fighters	Video editing – link to PE to make an instructional video	Multimedia	Why is YouTube so popular?	Use software to create a video, combining images, video and audio	pan, zoom, import, audio

Year 6	Computing	Area	Key Question	Knowledge and skills progression statement	Key vocabulary
Autumn 1 What a Shock!	Begin to understand how computer networks, servers, search technologies and the internet work.	Programming	Can I write a testing plan?	Plan how to test a program systematically to find and correct bugs.	
Autumn 2 Guilty or Not Guilty	Design and create programs using sequencing, loops, if..then..else statements and variables	Programming	How do I keep score in a game?	Design and create programs using sequencing, loops, if..then..else statements and variables	variable
Spring 1 The Ice Trap	Combine and make choices about which software will produce the best outcome	Multimedia	Can I make good choices about which software to use?	Combine and make choices about which software will produce the best outcome	
Spring 2 Operation Pied Piper	Plan how to test a program systematically to find and correct bugs.	Technology in our Lives	Do I need to understand how a computer works?	Begin to understand how computer networks, servers, search technologies and the internet work	Internet Protocol (IP) address, Domain Name Server (DNS), packets
Summer 1 The Evolution Solution	Collect data and use a database to help organise, present and evaluate this data.	Data	How can I organise data to answer questions?	Collect data and use a database to help organise, present and evaluate this data.	flat file database, data set, record, field
Summer 2 Temples of Doom	Use software to create a 3d design	Multimedia	Who uses 3d design?	Use software to create a 3d design	dimensions, perspectives, workplane, rotate, duplicate, group, placeholder, architecture